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Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Complete if Known	
				Application Number	10/602,521
				Filing Date	June 24, 2003
				First Named Inventor	David Edwin Thurston
				Group Art Unit	1639
				Examiner Name	Jon D. Epperson
Sheet	1	of	6	Attorney Docket Number	065435-9027-US00

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		ALTHIUS, T. H. and HESS, H. J., "Synthesis and Identification of the Major Metabolites of Prazosin Formed in Dog and Rat," <i>J. Medicinal Chem.</i> (1977) 20(1):146-148
		ARIMA et al., "Studies on Tomaymycin, a New Antibiotic. I. Isolation and Properties of Tomaymycin," <i>J. Antibiotics</i> (1972) 25:437-444
		ARISTOFF, J and JOHNSON, P., "Synthesis of CBI-PDE-I-Dimer, the Benzannelated Analogue of CC-1065," <i>J. Org. Chem.</i> (1992) 57:6234-6239
		BARALDI, P.G. et al., "Design, synthesis and biological activity of a pyrrolo[2,1-c][1,4]benzodiazepine (PBD)-distamycin hybrid," <i>Bioorganic & Medicinal Chemistry Letters</i> , vol. 8, No. 21, 3019-3024 (1998)
		BAYLEY, H. et al., "Photoactivatable drugs," <i>TIPS</i> , 8, 138-143 (1987)
		BI, Y. et al., "Building blocks for peptide and carbamate libraries", <i>Bioorganic & Medicinal Chemistry Letters</i> (1996) 6(19):2299-2300
		BOGER et al., "CC-1065 and the Duocarmycins: Synthetic Studies," <i>Chem. Rev.</i> (1997) 97:787-828
		BOSE et al., "New Approaches to Pyrrolo[2,1-c][1,4]benzodiazepines: Synthesis, DNA-binding and cytotoxicity of DC-81," <i>Tetrahedron</i> , 48, 751-758 (1992)
		BOSE, D.S. et al., "Rational Design of a Highly Efficient Irreversible DNA Interstrand Cross-Linking Agent Based on the Pyrrolobenzodiazepine Ring System," <i>J. Am. Chem. Soc.</i> , 114, 4939-4941 (1992)

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		BROWN, S.C. et al., "NMR Solution Structure of a Peptide Nucleic Acid Complexed with RNA," <i>Science</i> , 265, 777-780 (1994)
		DROST, K.J. and CAVA, M.P., "A Photochemically Based Synthesis of the Benzannelated Analogue of the CC-1065 A Unit," <i>J. Org. Chem.</i> , 56:2240-2244 (1991)
		EDMAN, P. and BEGG, G., "A Protein Sequenator," <i>Eur. J. Biochem.</i> , 1, 80-91 (1967)
		EGHOLM, M et al., "Peptide Nucleic Acids (PNA). Oligonucleotide Analogues with an Achiral Peptide Backbone," <i>J. Am. Chem. Soc.</i> , 114, 1895-1897 (1992)
		EGHOLM, M et al., "PNA hybridizes to complementary oligonucleotides obeying the Watson-Crick hydrogen-bonding rules," <i>Nature</i> , 365, 566-568 (1993)
		HARA et al., "DC 102, a new glycosidic pyrrolo(1,4)benzodiazepine antibiotic produced by <i>streptomyces</i> sp.," <i>J. Antibiotics</i> , 41, 702-704 (1988)
		HOCHLOWSKI, J. et al., "Abbeymycin, a new anthramycin-type antibiotic produced by a streptomycete," <i>J. Antibiotics</i> , 40, 145-148 (1987)
		HURLEY, L. and NEEDHAM-VANDEVANter, D., "Covalent Binding of Antitumor Antibiotics in the Minor Groove of DNA. Mechanism of Action of CC-1065 and the Pyrrolo(1,4)benzodiazepines," <i>Acc. Chem. Res.</i> , 19, 230-237 (1986)
		ITOH et al., "Sibanomicin, a new pyrrolo(1,4)benzodiazepine antitumor antibiotic produced by a <i>micromonospora</i> sp." <i>J. Antibiotics</i> , 41, 1281-1284 (1988)

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		JENKINS, T.C. et al., "Structure of a Covalent DNA Minor Groove Adduct with a Pyrrolobenzodiazepine Dimer: Evidence for Sequence-Specific Interstrand Cross-Linking," <i>J. Med. Chem.</i> , 37, 4529-4537 (1994)
		KAPOOR, T.M. et al., "Exploring the Specificity Pockets of Two Homologous SH3 Domains Using Structure-Based, Split-Pool Synthesis and Affinity-Based Selection," <i>J. Am. Chem. Soc.</i> 120:23-29 (1998)
		KOHN, K., "Anthramycin," <i>Antibiotics III</i> , Springer-Verlag, NY, 3-11 (1975)
		KONISHI, M. et al., "Chicamycin, a new antitumor antibiotic II. Structure determination of chicamycins A and B," <i>J. Antibiotics</i> , 37, 200-206 (1984)
		KUNIMOTO et al., "Mazethramycin, a new member of anthramycin group antibiotics," <i>J. Antibiotics</i> , 33, 665-667 (1980)
		LANGLEY, D.R. and THURSTON, D.E., "A versatile and efficient synthesis of carbinolamine-containing pyrrolo[1,4]benzodiazepines via the cyclization of N-92-aminobenzoylpyrrolidine-2-carboxaldehyde diethyl thioacetals: total synthesis of prothracarcin," <i>J. Org. Chem.</i> , 52, 91-97 (1987)
		LEBER, J.D. et al., "A revised structure for sibiromycin," <i>J. Am. Chem. Soc.</i> , 110, 2992-2993 (1988)
		LEIMGRUBER, W. et al., "Isolation and characterization of anthramycin, a new antitumor antibiotic," <i>J. Am. Chem. Soc.</i> , 87, 5791-5793 (1965)
		LEIMGRUBER, W. et al., "The structure of anthramycin," <i>J. Am. Chem. Soc.</i> , 87, 5793-5795 (1965)

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		LESCRINIER, T. et al., "DNA-Binding Ligands from Peptide Libraries Containing Unnatural Amino Acids," <i>Chem. Eur. J.</i> , 4, 3, 425-433 (1998)
		LOWN et al., "Molecular Mechanism of Binding of Pyrrolo(1,4)benzodiazepine antitumour agents to deoxyribonucleic acid – anthramycin and tomaymycin," <i>Biochem. Pharmacol.</i> (1979), 28 (13), 2017-2026
		MONKS, A. et al., "Feasibility of High-Flux Anticancer Drug Screen Using a Diverse Panel of Cultured Human Tumor Cell Lines," <i>Journal of National Cancer Institute</i> , 83, 757-766 (1991)
		MORAN, E.J. et al., "Novel Biopolymers for Drug Discovery: Biopolymers", <i>Peptide Science</i> , John Wiley and Sons, 37: 213-19 (1995)
		NAGASAKA, T. and KOSEKI, Y., "Stereoselective Synthesis of Tilivalline," <i>Journal of Organic Chemistry</i> , vol. 63, No. 20, 6797-6801 (1998)
		NAGASAKA, T. et al., "Stereoselective Synthesis of Tilivalline," <i>Tetrahedron Letters</i> , 30:14, 1871-1872 (1989)
		NIELSON, P.E. et al., "Sequence-Selective Recognition of DNA by Strand Displacement with a Thymine-Substituted Polyamide," <i>Science</i> , 254, 1497-1500 (1991)
		O'NEIL, I.A. et al., "DPPE: A Convenient Replacement for Triphenylphosphine in the Staudinger and Mitsunobu Reactions", <i>Tetrahedron Letters</i> , vol. 39, No. 42, 7787-7790 (1998)
		PAIKOFF, S.J. et al., "The Solid Phase Synthesis of N-Alkylcarbamate Oligomers", <i>Tetrahedron Letters</i> , 37, No. 32: 5653-5656 (1996)

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		RAWAL, V.H. et al., "Photocyclization Strategy for the Synthesis of Antitumor Agent CC-1065: Synthesis of Dideoxy PDE-I and PDE-II. Synthesis of Thiophene and Furan Analogues of Dideoxy PDE-I and PDE-II," <i>J. Org. Chem.</i> , 52, 19-28 (1987)
		SAHA, A.K. et al., "Diisopropylsilyl-Linked Oligonucleotide Analogs: Solid-Phase Synthesis and Physiocochemical Properties," <i>J. Org. Chem.</i> , 58, 7827-7831 (1993)
		SHIMIZU, K et al., "Prothracarcin, a Novel Antitumor Antibiotic," <i>J. Antibiotics</i> , 35, 972-978 (1982)
		SIMON, R.J. et al., "Peptoids: A Modular Approach to Drug Discovery", <i>Proc. Natl. Acad. Sci. USA</i> , 89:9367-9371 (1992)
		SOTH, M.J. and NOWICK, J.S., "Unnatural oligomers and unnatural oligomer libraries", <i>Curr. Opin. Chem. Biol.</i> , 1:120-129 (1997)
		TAKEUCHI, T. et al., "Neothramycins A and B, New Antitumor Antibiotics," <i>J. Antibiotics</i> , 29, 93-96 (1976)
		THURSTON, D.E. and THOMPSON, A.S., "The molecular recognition of DNA," <i>Chem. Brit.</i> , 26, 767-772 (1990)
		THURSTON, D.E. and BOSE, D.S., "Synthesis of DNA-Interactive Pyrrolo[2,1-c][1,4]benzodiazepines," <i>Chem. Rev.</i> , 94:433-465 (1994)
		THURSTON, D.E. et al., "Synthesis of a novel GC-specific covalent-binding DNA affinity-cleavage agent based on pyrrolobenzodiazepines (PBDs)," <i>Chemical Communications</i> , 563-565 (1996)

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		TSUNAKAWA, M. et al., "Porothramycin, a new antibiotic of the anthramycin group: Production, isolation, structure and biological activity," <i>J. Antibiotics</i> , 41:1366-1373 (1988)

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